1	MAGNETIC SEPARATING MEANS	29	Electrode or part thereof moved
2	.Electromagnet	2.0	on or against another
3	.And electric field separation	30	With shutdown or voltage
	apparatus		adjustment means interrelated
4	APPARATUS FOR SELECTIVE DIFFUSION		with cleaning (e.g., cutting
	OF GASES (E.G., SEMIPERMEABLE		off flow of gaseous fluid
	MEMBRANE, ETC.)		mixture or electrical current,
5	.Immobilized liquid membrane	2.1	etc.)
6	.Membrane to degasify liquid	31	Sequential operation
7	.Plural separate barriers	32	Vibrating, jarring, or rapping
8	Parallel hollow fibers or		means
	cylinders (e.g., bundled,	33	Mounted on rotatable shaft
	etc.)		(e.g., swinging arm or hammer,
9	Barriers connected in series		etc.)
10	.Hollow fiber or cylinder	34	Having reciprocating rod or
11	.Plural layers (e.g., laminated		piston type activating or
	barrier, etc.)		rapping means
12	Organic compound containing	35	Activated by second swinging
12	layer		or rotatable means
13	Ring containing organic	36	Magnet or solenoid activating
13	compound		means
14	-	37	Reciprocating rod or piston
14	.Membrane having ring containing		type activating or rapping
1 -	organic compound		means
15	ELECTRIC FIELD SEPARATION	38	Horizontal striking means
	APPARATUS (E.G., ELECTRICAL	39	Movably mounted electrode
	PRECIPITATOR, ELECTROSTATIC	40	Nonliquid contact cleaning
1.0	TYPE, ETC.)		means
16	.And radioactive or ultraviolet	41	Liquid bath for immersion of
1 17	light ionizer		electrode
17	.Electric charge produced by	42	Endless belt carried or belt
	friction (e.g., by gas flow,		type electrode
1.0	etc.)	43	Fluid contacting means (e.g.,
18	.With control means responsive to		suction means, etc.)
1.0	sensed condition	44	Liquid applying means for
19	Concentration or temperature		electrode (e.g., projection
	sensing means		type, etc.)
20	Arc, spark, or flashover	45	Weir or overflow wet film
	sensing means		type
21	Current sensing means	46	Having movable spraying means
22	Current sensing means	10	for liquid
23	And voltage sensing means	47	Including means to
24	Voltage sensing means	1,	recirculate liquid
25	.With programmed, cyclic, or time	48	Including baffle for
	responsive control means	10	directing gas flow
26	.With indicating, signal, or	49	Cylindrical electrode
	alarm means		
27	.With means to add charged solid	50	Apparatus purging or flushing
	or liquid particles to gaseous	51	means using gas or liquid
	fluid mixture	ЭT	Electrode scraping, brushing,
28	.Electrode cleaner, apparatus	ΕO	or wiping means
	part flusher, discharger, or	52	.With means for vapor or liquid
	wet collector (e.g., wet film		contact (e.g., for gas
	electrode, etc.)		separation, cooling,
			conditioning, etc.)

53	Liquid spray means	78	Adjacent parallel collector
54	.Having alternating electrostatic		electrodes are differently charged
55	.And serially arranged nonelectrical separator	79	Collecting electrodes are flat plates
56	Bypass or modification of flow of gaseous fluid mixture to	80	.With details of voltage supply means or circuitry
	second stage	81	Closure interlock or removable
57	Precedent nonelectrical separator	82	sectionCircuit portions
58	Separator is single porous	83	circuit portions .Electrode retaining or
30	filter	03	supporting means
59	Total flow of gaseous fluid	84	Plural electrode unit assembly
	mixture through porous	0.5	type (e.g., unitized, etc.)
60	collector electrode .Including gas flow distribution	85	<pre>Disposable (e.g., collapsible or foldable cardboard, etc.)</pre>
	means	86	Parallel disk or plate
61	Spiralling inflow, centrifugal,		collector unit
	or whirl generating surface means	87	Parallel disk or plate collector
62	For contact with ionizing	88	With insulation feature
	electrode or uniform flow in	89	Tensioning means
	treating zone	90	Spring or expansible bellows
63	Having means for driving gas	91	Hanging weight
	<pre>flow (e.g., fan, blower, etc.)</pre>	92	Suspensory means
64	Perforated baffle or gas diffuser	93	Nonrigid support (e.g.,
65	Collecting electrode modifies gas flow	94	hanging electrode, etc.)Movably supported during use or for orientation
66	Total flow of gaseous fluid	95	.Ionizing electrode details
	mixture through interstitial	93	(e.g., coil, mat, corona
	or porous collector		suppression, etc.)
67	Zigzag running length	96	Filamentary or filar form
68	Particle type collector	97	Sharpened point, serrated, or
69	Layered, laminated, or coated		tip discharge
70	Plural separate electrode	98	.Collecting electrode details
	members aligned in direction of gas flow		<pre>(e.g., sheet type, running length web, etc.)</pre>
71	Segmented electrode	99	Dielectric material containing
72	Continuous electrode with		or covering
	integral or attached	100	Multiple similar elements or
72	projections		sections (e.g., built up,
73	Flow distribution means for parallel sections		etc.)
74	.With nonelectrical gas treating	101	CHROMATOGRAPHY TYPE APPARATUS
74	or conditioning means	102	.With control means responsive to sensed condition
75	.Plural diverse electric fields	103	.With programmed, cyclic, or time
76	One or more electrodes common		responsive control means
	to plural fields	104	.Plural separate and distinct
77	Serially arranged ionizing and		stages
	collecting or agglomerating fields	105	.Including injection system or inlet fluid distributor
		106	.Having system connector or coupling

107	.Having imbedded baffle or flow	139	Including baffle for modifying
108	distributor SOLID SORBENT APPARATUS		<pre>gas flow (e.g., flow vanes, diffuser, etc.)</pre>
100	.With control means responsive to	140	And means for driving gas flow
100	sensed condition	141	And means regenerating solid
110	Fluid flow sensing means		sorbent
111	Concentration sensing means	142	With means for driving gas flow
112	Temperature sensing means	143	.With means regenerating solid
113	Pressure sensing means		sorbent
114	And programmed, cyclic, or	144	Gas contacting means
	time responsive control means	145	Means applies steam to solid
115	.With programmed, cyclic, or time		sorbent
	responsive control means	146	Heat exchanger to regenerate
116	Regulating or metering means	147	.Having mountable casing
117	Indicating, signal, or alarm	148	Storage or food receptacle
	means	149	.With means to compress or
117.5	.With indicating means (e.g.,		compact solid sorbent bed
	color change indicator, etc.)	150	.Movable solid sorbent bed (e.g.,
118	.Soluble or deliquescent type		fluidized bed, etc.)
	<pre>(e.g., calcium chloride, etc.)</pre>	151	.Including means to access or
119	Supported by holder with drip		replace solid sorbent
	openings	152	.Including baffle for modifying
120	Including liquid contacting		gas flow (e.g., imbedded in
101	means	1 5 2	solid sorbent, etc.)
121	.Plural solid sorbent beds	153	.Dispersed or impregnated solid sorbent bed
122	With recovery or separation	154	Layered or laminated (e.g.,
123	means for desorbing fluidMovable solid sorbent bed	134	solid sorbent on support
123	Movable solla sorbent bea		solid solbent on support
	(o g fluidized bod etg.)		material etc)
124	(e.g., fluidized bed, etc.)	155	material, etc.) DEGASIFYING MEANS FOR LIQUID
124	With rotating gas distributor	155 156	DEGASIFYING MEANS FOR LIQUID
125	With rotating gas distributorRotating solid sorbent bed	155 156	DEGASIFYING MEANS FOR LIQUID .With control means responsive to
125 126	With rotating gas distributorRotating solid sorbent bedWith heat exchange means		DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition
125	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow	156	DEGASIFYING MEANS FOR LIQUID .With control means responsive to
125 126	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow (e.g., pump, blower,	156 157	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition With liquid level sensing means
125 126	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow	156 157	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition With liquid level sensing means Separator inlet or outlet
125 126 127	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow (e.g., pump, blower, compressor, etc.)Compressor	156 157	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition .With liquid level sensing means Separator inlet or outlet valve responsive to float
125 126 127	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow (e.g., pump, blower, compressor, etc.)	156 157 158	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition With liquid level sensing means Separator inlet or outlet valve responsive to float level
125 126 127	 .With rotating gas distributor .Rotating solid sorbent bed .With heat exchange means And means for driving gas flow (e.g., pump, blower, compressor, etc.) Compressor .Zigzag arrangement of flat 	156 157 158	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition With liquid level sensing means Separator inlet or outlet valve responsive to float level Plural floats
125 126 127	 .With rotating gas distributor .Rotating solid sorbent bed .With heat exchange means And means for driving gas flow (e.g., pump, blower, compressor, etc.) Compressor .Zigzag arrangement of flat solid sorbent beds for 	156 157 158	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition With liquid level sensing means Separator inlet or outlet valve responsive to float level Plural floats And temperature sensing
125 126 127 128 129	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow (e.g., pump, blower, compressor, etc.)CompressorZigzag arrangement of flat solid sorbent beds for parallel flow	156 157 158 159 160	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition With liquid level sensing means Separator inlet or outlet valve responsive to float level Plural floats And temperature sensing means
125 126 127 128 129	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow (e.g., pump, blower, compressor, etc.)CompressorZigzag arrangement of flat solid sorbent beds for parallel flowWith means for regenerating	156 157 158 159 160 161 162	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition With liquid level sensing means Separator inlet or outlet valve responsive to float level Plural floats And temperature sensing means And pressure sensing means Plural float-controlled valves
125 126 127 128 129	With rotating gas distributorRotating solid sorbent bedWith heat exchange meansAnd means for driving gas flow (e.g., pump, blower, compressor, etc.)CompressorZigzag arrangement of flat solid sorbent beds for parallel flowWith means for regenerating solid sorbent	156 157 158 159 160	DEGASIFYING MEANS FOR LIQUID .With control means responsive to sensed condition .With liquid level sensing means Separator inlet or outlet valve responsive to float level Plural floats And temperature sensing means And pressure sensing means Plural float-controlled valves At least one is gas outlet
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171	And tangential flow or	205	And preliminary heat exchange
4.50	centrifugal separating means		means
172	With pressure sensing means	206	At inlet to separator
173	With temperature sensing means	207	Plural, serially arranged
174	With pressure sensing means	208	Centrifugal type
175	.Sonic means (i.e., using sound	209	Tangential inlet
	waves)	210	Including tangential outlet
176	.Defoaming means	211	Split or plural inlets
177	Centrifugal or rotating	212	Including inner and outer
	separator		casings or plural compartments
178	Having flow-through foam	213	Tangential outlet
	restrictor or eliminator	214	Rotating means
	(e.g., screen, etc.)	215	Plural, serially arranged
179	Having flow-through foam	216	Centrifugal type
	restrictor or eliminator	217	Impeller or screw on rotating
	(e.g., screen, etc.)		shaft
180	Having recycle means (e.g., for	218	.Heat exchanger to degasify
	foam or separated liquid,	219	.And fluid filter
	etc.)	220	.Including baffle
181	.And liquid contact means	221	COLD WALL-HOT WALL THERMAL
182	.With separator for multiple		DIFFUSION-TYPE SEPARATOR
	liquids	222	WITH MEANS TO ADD FRAGRANCE OR
183	Reservoir with three or more		SCENT
	outlets, each for different	223	WITH STERILIZING MEANS
	fluid	224	.Germicidal lamp (e.g.,
184	Horizontal reservoir		ultraviolet light, etc.)
185	With heat exchange means	225	.Heater (e.g., electrical, steam,
186	And internal filter or screen		etc.)
	(e.g., coalescer, etc.)	226	.Means uses chemical
187	.Tank or tank part movably		antimicrobial agent
	mounted on support (e.g., for	227	Liquid agent
	deaerating aircraft	228	WITH MEANS USING LIQUID TO CLEAN
	<pre>lubricating oil, etc.)</pre>		SEPARATING APPARATUS
188	.Including means to remove mist	229	.Movably mounted cleaning liquid
	entrained in gas		distributor
189	Baffle, filter, or screen	230	.Movable separating media
190	Plural, serially arranged	231	Immersion cleaning
191	Concentric tubular members	232	.Parallel vanes or baffles
192	Alternate central and	233	.Filter
	peripheral gas paths	234	GAS AND LIQUID CONTACT APPARATUS
193	.Pressure reducing means		FOR GAS SEPARATION INCLUDING
194	And liquid flow modifier		MEANS TO REGENERATE, PURIFY,
195	Centrifugal type		OR SEPARATE CONTACT LIQUID
196	Rotating means	235	.Means to add conditioning agent
197	Baffle		to contact liquid
198	Plural baffles in series	236	.Gravitational separator for
199	With heat exchange means		contact liquid
200	Spray nozzle	237	With heavier component
201	With heat exchange means		mechanical mover, trap,
202	.With gas contacting means		chamber, or recess in
203	Spray nozzle		gravitational separator
204	Liquid flow slinger, spreader,	238	With lighter component removal
	deflector, disperser, or	- -	means in gravitational
	rotation modifier		separator
			±

239	With baffle, plate, or weir	270	And contact liquid sprayer
	within gravitational separator to aid contact liquid	271	Means forming free-falling contact liquid curtain
	regeneration, purification, or	272	Means forming flowing contact
	separation	2/2	liquid film on apparatus
240	.Filter for contact liquid		surface
241	Including filter adjusting or	273	And contact liquid sprayer
211	removal means	274	Means to apply contact liquid
242	.Heating or cooling means	2/4	to solid or porous sheet or
243	WITH GAS AND LIQUID CONTACT		tube
215	APPARATUS	275	Venturi passage
244	.With control means responsive to	276	And liquid bath or reservoir
	sensed condition	270	for contact
245	Contact liquid level sensing	277	And contact liquid sprayer
	means	278	Liquid bath or reservoir for
246	By pressure sensing means		contact
247	Valve responsive to float level	279	Submerged inlet for subsurface
248	Plural floats	200	contact
249		280	And contact liquid sprayer
249	Contact liquid inlet valve responsive to float level	281	<pre>.Movably mounted contact liquid distributor</pre>
250	Contact liquid outlet valve	282	Rotatable solid disc or surface
	responsive to float level	283	Partially immersed within
251	Temperature sensing means		contact liquid
252	Gas flow rate sensing means	284	Rotation causes contact liquid
253	Pressure sensing means		to be drawn from liquid
254	Pressure sensitive diaphragm		reservoir (e.g., suction,
255	.With programmed, cyclic, or time		etc.)
	responsive control means	285	Rotation caused by flowing
256	.Contact liquid movement by		contact liquid or gas
	flowing gas force	286	Rotatable porous disc or
257	.Including means varying gas flow		surface
	to control saturation or	287	Partially immersed within
	dispersion		contact liquid
258	Pivotal means	288	Belt type
259	About an end	289	Drum type
260	Axially movable means	290	.Particulate media, shaped
261	Conically or frustoconically shaped		<pre>packing elements (e.g., Raschig rings, Berl saddles,</pre>
262	.Having contact liquid level		etc.), or porous media for gas
202	maintaining means (e.g., weir,		and liquid contact
	wall openings, tubes, gates,	291	Moving
	etc.)	292	In engine air inlet
263	.For portion of total gas flow	293	In fuel dispersal means (e.g.,
264	Utilizing a valve		in carburetor, etc.)
265	.Including means to control	294	Humidifier or evaporative
	contact liquid return flow to		cooler
	supply or sump	295	Gas dehydrator (e.g., glycol
266	With heat exchange means		type, etc.)
267	.Diverse means for adding liquid	296	Mesh or fabric screen, fibrous
	for gas and liquid contact		or filamentary pad, or
268	Moving apparatus part for		perforated plate
	liquid contact	297	By sprayer
269	And liquid bath or reservoir	298	Foam
	for contact		

299	Parallel plate, sheet, or	327	Imperforate film supporting
	member		surface
300	Downstream gas separation means	328	Inclined
	<pre>(e.g., mist eliminator, etc.)</pre>	329	.Liquid bath or reservoir for
301	.Fixed gas whirler or rotator for		contact
	gas separation	330	Having back pressure relief or
302	Having conical baffle with apex		liquid blow back trap or
	facing upstream		separator
303	Contact liquid applied in	331	Having antisplash means or
	central gaseous flow path of		means for retaining contact
	concentric gaseous flow paths		liquid during upset or tilt
304	Baffle, vane, or plate in	332	With movable agitator in bath
301	outer gaseous flow path	332	or reservoir for commingling
305	Baffle, vane, or plate in		gas and liquid
303		333	Nonliquid gas separator
206	central gaseous flow path	333	
306	Liquid contact preceding		positioned above liquid bath or reservoir
0.00	whirler or rotator	224	
307	Means forming free-falling	334	Having means for forming
	contact liquid curtain		contact liquid into spray or
308	Means forming flowing contact	225	heap
	liquid film on apparatus	335	Central downward gas inlet
	surface	336	Gas flows tangentially to
309	Liquid bath or reservoir for		liquid surface
	contact	337	Superposed filter
310	And downstream filter	338	Having flow guide preventing
311	Contact liquid spray		entire filter face contact by
312	Within a venturi passage		gas flow
313	Tangential gas inlet into	339	Surrounding gas flow path
	whirler or rotator	340	Submerged inlet for
314	Liquid contact within whirler		subsurface contact
	or rotator	341	And separable liquid sump
315	Means forming free-falling	342	Submerged inlet for
313	contact liquid curtain		subsurface contact
316	Means forming flowing contact	343	Multiple outlet orifices in
310	liquid film on apparatus		submerged inlet
	surface	344	Perforated pipe
317	Liquid bath or reservoir for	345	Perforated plate
317	-	346	Submerged baffle
210	contact		_
318	And downstream filter	347	Gas flows tangentially to
319	Contact liquid spray	2.40	liquid surface
320	Baffle means for producing or	348	Superposed stationary
	aiding contact liquid spray		deflector
	formation	349	Flow reversal
321	Having tangential gaseous fluid	350	Tortuous path
	mixture inlet	351	Submerged inlet for subsurface
322	.Means forming flowing contact		contact
	liquid film on apparatus	352	Multiple outlet orifices in
	surface or free- falling		submerged inlet
	contact liquid curtain for gas	353	Perforated pipe
	and liquid contact	354	Perforated plate
323	Venturi type	355	.Nonliquid gas separating means
324	Curved impingement surface		downstream of liquid contact
325	Impingement baffle or pan		means
326	Liquid flow surface perforated	356	Parallel vanes or baffles
	for gas flow therethrough	357	And diverse separating means
	<u> </u>	- 	

358	Overlapping vanes or baffles	398	.Ejection of residue container or
359	Moving centrifugal separator		separating unit (e.g., filter
360	Impact vane, baffle, or wall		or bag, etc.)
361	Filter	399	.Gas cutoff or diversion
362	Perforated plate	400	Gas pressure responsive means
363	Mesh or fabric screen	401	And temperature responsive
364	Fibrous or filamentary pad		means
365	And preliminary separating	402	Plural gas pressure responsive
	means		means
366	.Deflector upstream of liquid	403	For vacuum producing means
	contact means		(e.g., vacuum cleaner, etc.)
367	Imperforate, impermeable baffle	404	Collecting bag presence
368	Conical		responsive means
369	Ribbed or corrugated	405	By response to accumulated
370	Angled or inclined		separated liquids or solids
371	.Filter upstream of liquid	406	By float
	contact means	407	Temperature or humidity
372	INCLUDING INLET MEANS FOR DIVERSE		responsive
	GAS OR SOLID FOR GAS TREATMENT	408	.Regulation of separated
373	.Solid or vaporized solid		constituent discharge
374	.Steam is diverse gas	409	By liquid accumulation
375	Added into combustion products		responsive float
376	To effect particle removal	410	Side discharge from reservoir
	(e.g., dust removal, etc.)	411	Control valve in line
377	.And outlet for condensed vapors		external to reservoir
378	.Downstream of separator	412	Control valve in external
379	.And gas regulation for each		bottom discharge line from
	inflowing gas		reservoir
380	WITH SOUND DAMPING MEANS (I.E.,	413	WITH SAMPLING MEANS
	NOISE ATTENUATION)	414	WITH INSPECTION MEANS
381	.Sound absorbing material	415	.Translucent
382	For vacuum cleaner	416	.Transparent
383	For internal combustion engine	417	WITH SIGNALS, INDICATORS,
384	.Sound attenuating gas flow path		MEASURING, OR TESTING MEANS
385	Baffle in flow path	418	.Light signal
386	For internal combustion engine	419	.Sound signal
387	Perforated surface	420	.Temperature measuring means
388	- ' ' '		
500	Expansion chamber	421	.Pressure measuring means
389	SONIC MEANS (I.E., USING SOUND	422	.Pressure measuring means .Gas flow rate measuring means
	-	422 423	
	SONIC MEANS (I.E., USING SOUND	422	.Gas flow rate measuring means
389	SONIC MEANS (I.E., USING SOUND WAVES)	422 423 424	.Gas flow rate measuring means .Position measuring means WITH TIMING OR CHANGEABLE PROGRAMMING MEANS
389 390	SONIC MEANS (I.E., USING SOUND WAVES) SHELF OR EDGE TYPE	422 423	.Gas flow rate measuring means .Position measuring means WITH TIMING OR CHANGEABLE PROGRAMMING MEANS .Of cleaning mechanism for
389 390 391	SONIC MEANS (I.E., USING SOUND WAVES) SHELF OR EDGE TYPE .Helical or spiral wound strip	422 423 424 425	.Gas flow rate measuring means .Position measuring means WITH TIMING OR CHANGEABLE PROGRAMMING MEANS .Of cleaning mechanism for separating media
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389 390 391 392 393 394	SONIC MEANS (I.E., USING SOUND WAVES) SHELF OR EDGE TYPE .Helical or spiral wound strip .Parallel plates or discsGrooved or slottedHaving fibrous filter material or porous structure .Nap-like or pile-like material WITH DRIP OR ESCAPING MATERIAL,	422 423 424 425 426 427 428	.Gas flow rate measuring means .Position measuring means WITH TIMING OR CHANGEABLE PROGRAMMING MEANS .Of cleaning mechanism for separating mediaSequential cleaning of plural separating mediaMultiple bag-type filters in chamberFor control of pneumatic reverse flushing
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- FOR 104 ..Gas pressure responsive separate reactor surface means (552/13)
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